

FIG. 1

1008519.023001

1 ATGGCCGCTCGGGGCTGCTGAACGGCCCGGGCCGGAGACGGTCGGCGAGACACGGT
 1▶ MetAlaAlaArgGlyGlyAlaGluArgAlaAlaGlyAlaGlyAspGlyArgArgGlyGlnArg
 64 CGTCATCTACGACCGGACGTGTTCTCGCTCTACGGGTCCTGCCAGCCCTGGCGCCGGC
 22▶ ArgHisLeuArgProGlyArgValIleuAlaAlaLeuArgGlyProAlaAlaProGlyAlaGly
 127 GGGCGCGCGCGCTAGCCGCTGCCCTGCTATGGCGACGTGGGCCCTGCTGCTGGCGCG
 43▶ GlyAlaArgAlaAlaLeuAlaAlaLeuLeuThrAlaThrTrpAlaLeuLeuAlaAla
 190 CCGCGCGCGGGACCGGCGACAACGCCCGCGCGCCCCCGCCGAGAGCCGCGAGCCCG
 64▶ ProAlaAlaGlyArgProAlaThrThrProProAlaProProProGluAlaAlaSerPro
 253 GCGCCCCCGGAGCCCCAGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 85▶ AlaProProAlaSerProSerProProGlyProAspGlyAspAlaAlaSerProAspAsn
 316 AGCACAGACGTGCGCGCGCTCGGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCTTCTTC
 106▶ SerThrAspValArgAlaAlaLeuArgLeuAlaGlnAlaAlaGlyGluAsnSerArgPhePhe
 379 GTGTGCCCGCGCCCTCGGGCGCCACGGTGGTCCGGCTCGCGCGCGCGCGCGCGCGCTGAG
 127▶ ValCysProProProSerGlyAlaThrValValArgLeuAlaProAlaArgProCysProGlu
 442 TACGGGCTCGGGCGGAACACACGAGGGCATCGGCGTCAATTACAGGAGAACATCGGCGCG
 148▶ TyrGlyLeuGlyArgAsnTyrThrGluGlyIleGlyValIleTyrLysGluAsnIleAlaPro
 505 TACACGTTCAAGGCCCTACATTTACAAAACGTGATCGTGACCACGACCTGGGGCGGCACG
 169▶ TyrThrPheLysAlaTyrIleTyrLysAsnValIleValThrThrThrTrpAlaGlySerThr

FIG. 2A

568 TACGGGGCCATTACAAACAGTACACGACCGCGTGCCTGGCATGGCCGAGATCACGGAC
 190 ▶ TyrAlaAlaIleThrAsnGlnTyrThrAspArgValProValGlyMetGlyGluIleThrAsp
 631 CTGGTGGACAAGAAGTGGCGCTGCCTTTCGAAGCCGAGTACCTGCGCAGCGGGCGCAAGGTG
 211 ▶ LeuValAspLysLysTyrPArgCysLeuSerLysAlaGluTyrLeuArgSerGlyArgLysVal
 694 GTGGCCCTTGTACCGCGACGACGCCCTGGGAGCGCGCGCTGAAGCCTGCCGCGCTAGCGCG
 232 ▶ ValAlaPheAspArgAspAspProTyrPgluAlaProLeuLysProAlaArgLeuSerAla
 757 CCCGGGTGCGGGCTGGCCACACGACGACGATGTGTACACGCGCTGGCTCGCGGGGCTC
 253 ▶ ProGlyValArgGlyTyrPHisThrThrAspValTyrThrAlaLeuGlySerAlaGlyLeu
 820 TACCGCACGGGCACCTCTGTGAACCTGCACTCGTGAAGAAGTGGAGCGCGCTCGGTGTACCCG
 274 ▶ TyrArgThrGlyThrSerValAsnCysIleValGluGluValGluAlaArgSerValTyrPro
 883 TACGACTCGTTCGGCTCTCGACCGGGACATTATCTACATGTGCGCCCTTTTACGGGCTCGCG
 295 ▶ TyrAspSerPheAlaLeuSerThrGlyAspIleIleTyrMetSerProPheTyrGlyLeuArg
 946 GAGGGCGCGCACCGGAGCACACAGGCTACTCGCCGGAGCGCTTCCAGCAGATCGAGGGCTA
 316 ▶ GluGlyAlaHisArgGluHisThrArgLeuLeuAlaGlyAlaLeuProAlaAspArgGlyLeu
 1009 CTACAAGCGCGACATGGCCACGGCGCGCGCTCAAGGAGCGGTCTCGCGGAAC'TTTTTCGG
 337 ▶ LeuGlnAlaArgHisGlyHisGlyProAlaProGlnGlyAlaGlyLeuAlaGluLeuPheAla
 1072 TACACACGACGTGACCGGTAGCCCTGGGACTGGGTGCCCAAGCGCAAAAACGTGTGCTCGCTGGC
 358 ▶ TyrThrAlaArgAspGlySerLeuGlyLeuGlyAlaGlnAlaGlnLysArgValLeuAlaGly

FIG. 2B

1135 CAAGTGGCGGAGCGGACGAAATGCTGCCGAGACGAGCCGGGAACTTCCGCTTCACGGC
 379 GlnValAlaArgGlyGlyArgAsnAlaAlaArgArgGluProArgGluLeuProLeuHisGly
 1198 CCGCTCGCTCTCGCGACCTTTGTGAGCCAGCCACACCTTCGCGTTGCAGAAATGTCCGCT
 400 ProLeuAlaLeuGlyAspLeuCysGluArgGlnProHisLeuArgValAlaGluCysAlaAla
 1261 GAGCGACTGCGTGATCGAAGAGCGCGAGCGCGGTGAGCGCGTCTACCGGAGCGCTACAA
 421 GluArgLeuArgAspArgArgGlyArgGlyArgAlaArgLeuProArgAlaLeuGln
 1324 CGCACGCACGTGCTGTCGGGCAGCTTGGAGACGTACCTGGCGCGCGGCTTTGTCTGCTGGC
 442 ArgHisAlaArgAlaValGlyGlnLeuGlyAspValProGlyAlaArgArgLeuCysArgGly
 1387 CTTCCGGCGATGCTAGCAACGAGCTGGCCAAAGCTGTACCTGCAGAGCTGGCGCGCTCGAAC
 463 LeuProAlaMetLeuSerAsnGluLeuAlaLysLeuTyrLeuGlnGluLeuAlaArgSerAsn
 1450 GGCACGCTCGAGGGGCTGTTCCGCGCGCGGCCCAAGCCGGCGCGCGCGCGCGCGCGC
 484 GlyThrLeuGluGlyLeuPheAlaAlaAlaProLysProGlyProArgArgAlaArgArg
 1513 GCCGCGCGCTCTGC
 505 AlaAlaProSerAlaProGlyGlyProGlyAlaAlaAsnGlyProAlaGlyAspGlyAspAla
 1576 GCGGCGCGGTGACTACCGTGAGCTCGGCCGAGTTTGGCGCGCTGCAGTTCACCTACGACCAC
 526 GlyGlyArgValThrThrValSerSerAlaGluPheAlaAlaLeuGlnPheThrTyrAspHis
 1639 ATCCAGGACCACGTGAACACCATGTTTCAGCCGCGCTGGCCACGTCCTGGTGCCTGTCAGAAC
 547 IleGlnAspHisValAsnThrMetPheSerArgLeuAlaThrSerTrpCysLeuLeuGlnAsn

FIG. 2C

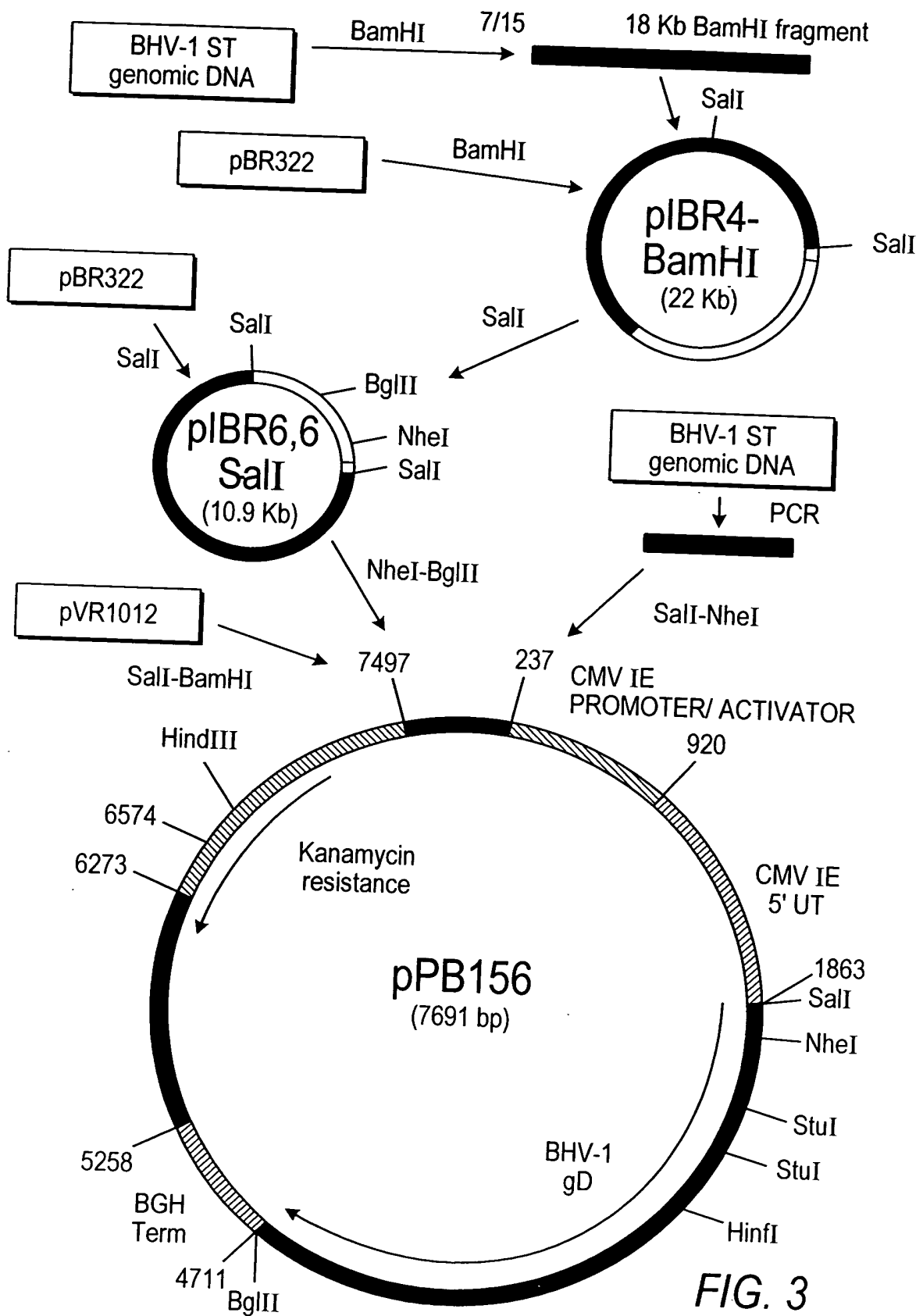
1702 AAGAGCGCGCCCTGTGGCGCGAGCGGCTAAGCTAACCCAGCGCGCGCGCGCTCGG
 568 ▶ LysGluArgAlaLeuTTPAlaGluAlaLysLeuAsnProSerAlaAlaSerAlaAla
 1765 CTGGACCGCGCGCGCGCGCATGTTGGGACGCCATGGCCGTACGTACTGCCACGAG
 589 ▶ LeuAspArgAlaAlaAlaArgMetLeuGlyAspAlaMetAlaValThrTyrCysHisGlu
 1828 CTGGCGAGGGCGGTTCATCGAGAACTCGATGCGCGCGCGCGCGTTCGTACAGC
 610 ▶ LeuGlyGluGlyArgValPheIleGluAsnSerMetArgAlaProGlyGlyValCysTyrSer
 1891 CGCCCGCGGTCTCCTTTGCCCTTCGGCAACGAGAGCGCGGTGGAGGCGCCAGCTCGCGGAG
 631 ▶ ArgProProValSerPheAlaPheGlyAsnGluSerGluProValGluGlyGlnLeuGlyGlu
 1954 GACAACGAGCTGCTGCCGCGCGCGAGCTCGTGGAGCCCTGCACCGCCAACCAACGCGCTAC
 652 ▶ AspAsnGluLeuLeuProGlyArgGluLeuValGluProCysThrAlaAsnHisLysArgTyr
 2017 TTCCGCTTTGGCGCGGACTACGTGTACTACGAGAACTACGCGTACGTGCGCGGTCCCGCTC
 673 ▶ PheArgPheGlyAlaAspTyrValTyrTyrGluAsnTyrAlaTyrValArgArgValProLeu
 2080 GCGAGCTGGAGGTGATCAGCACCTTTGTGACCTAAACCTCACGGTTCTGGAGGACCGCGAG
 694 ▶ AlaGluLeuGluValIleSerThrPheValAspLeuAsnLeuThrValLeuGluAspArgGlu
 2143 TTCTTGCCGCTAGAGTGATACACGCGCGCGAGCTCGCGGACACGGGTCTGCTCGACTACAGC
 715 ▶ PheLeuProLeuGluValTyrThrArgAlaGluLeuAlaAspThrGlyLeuLeuAspTyrSer
 2206 GAGATACAGCGCGCAACGAGCTGCACGAGCTCCGGTTCTACGACATTGACCGCGGTGTCAG
 736 ▶ GluIleGlnArgArgAsnGlnLeuHisGluLeuArgPheTyrAspIleAspArgValValLys

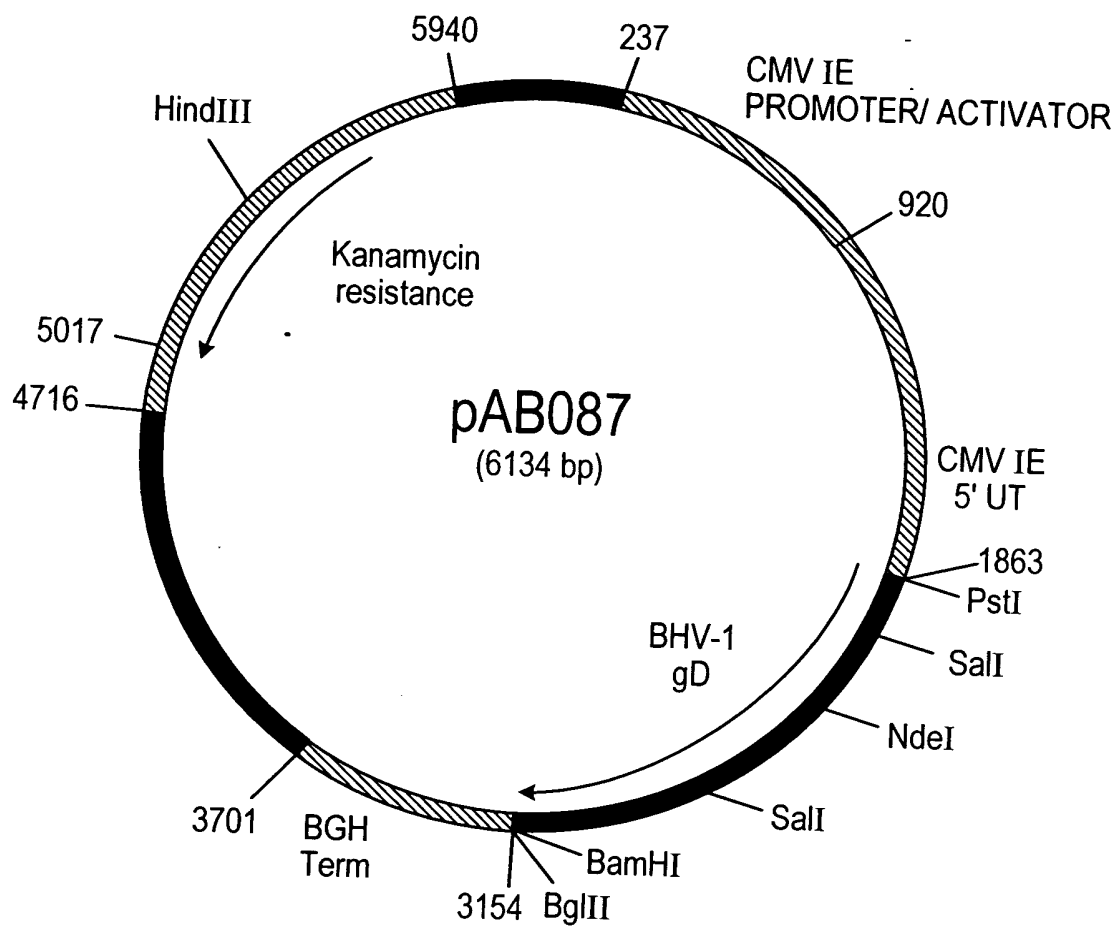
FIG. 2D

2269 ACGACGGCAATATGGCCATCATGCGAGGCTCGCCAACCTCTTTCAGGGCCTGGCGCCGCTC
 757 ▶ ThrAspGlyAsnMetAlaIleMetArgGlyLeuAlaAsnPhePheGlnGlyLeuGlyAlaVal
 2332 GGGACGGCGGTGGCACGGTGGTCTGGGCGCCGGGTGCCGCTCTCGACCGTGTCTCGGC
 778 ▶ GlyGlnAlaValGlyThrValValLeuGlyAlaAlaGlyAlaAlaLeuSerThrValSerGly
 2395 ATCGCCTCGTTTATTGCGAACCCGTTTCGGCGCTGCCACGGGCTGCTGGTCTCGCCGGG
 799 ▶ IleAlaSerPheIleAlaAsnPropheGlyAlaLeuAlaThrGlyLeuLeuValLeuAlaGly
 2458 CTGGTGGCCGCTTTCTGGCGTACCGGTACATTTCGCCCTCCGCAGCAACCCCATGAAGCG
 820 ▶ LeuValAlaAlaPheLeuAlaTyrArgTyrIleSerArgLeuArgSerAsnProMetLysAla
 2521 CTGTACCCGATCACACGGCGGCTCAAGGACGACGCCCGGGCCCAACCGCCCGGCGAG
 841 ▶ LeuTyrProIleThrThrArgAlaLeuLysAspAlaArgGlyAlaThrAlaProGlyGlu
 2584 GAAGAGGAGGAGTTTGACGGGCCAAACTGGAGCAGGCCCGCAGATGATCAAGTATATGTCG
 862 ▶ GluGluGluGluPheAspAlaAlaLysLeuGluGlnAlaArgGluMetIleLysTyrMetSer
 2647 CTCGTGTACGGTCTGAGCGGCAAGAGCACAAAGCGAAAGAGCAACAAGGGCGGCCGCTG
 883 ▶ LeuValSerAlaValGluArgGlnGluHisLysAlaLysLysSerAsnLysGlyGlyProLeu
 2710 CTGGCGACCCGGCTGACCGAGCTCGCGCTTCGGCGGAGCGCCGCGGAGTACCAGAGCTT
 904 ▶ LeuAlaThrArgLeuThrGlnLeuAlaLeuArgArgAlaProProGluTyrGlnGlnLeu
 2773 CCGATGGCCGACGTCGGGGGCGCATGA
 925 ▶ ProMetAlaAspValGlyGlyAla...

FIG. 2E

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**FIG. 4**

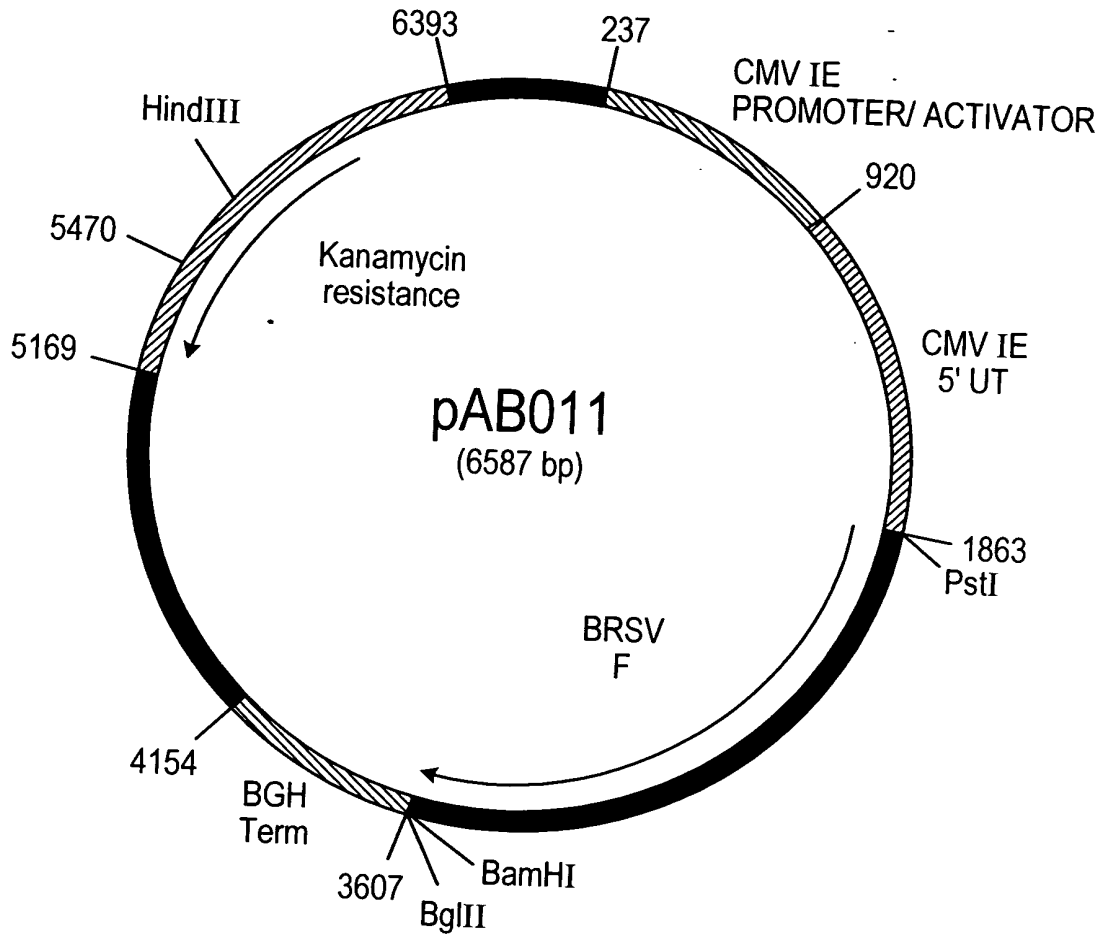
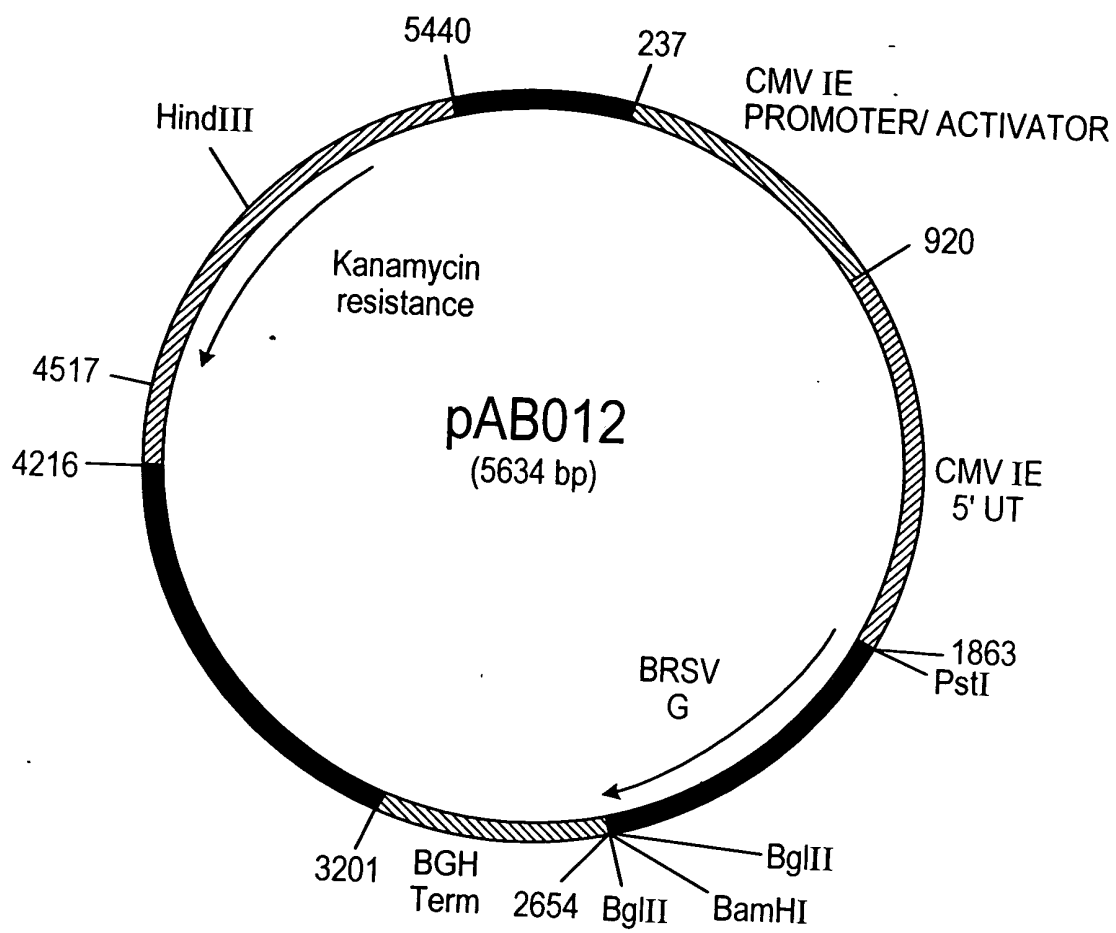


FIG. 5

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**FIG. 6**

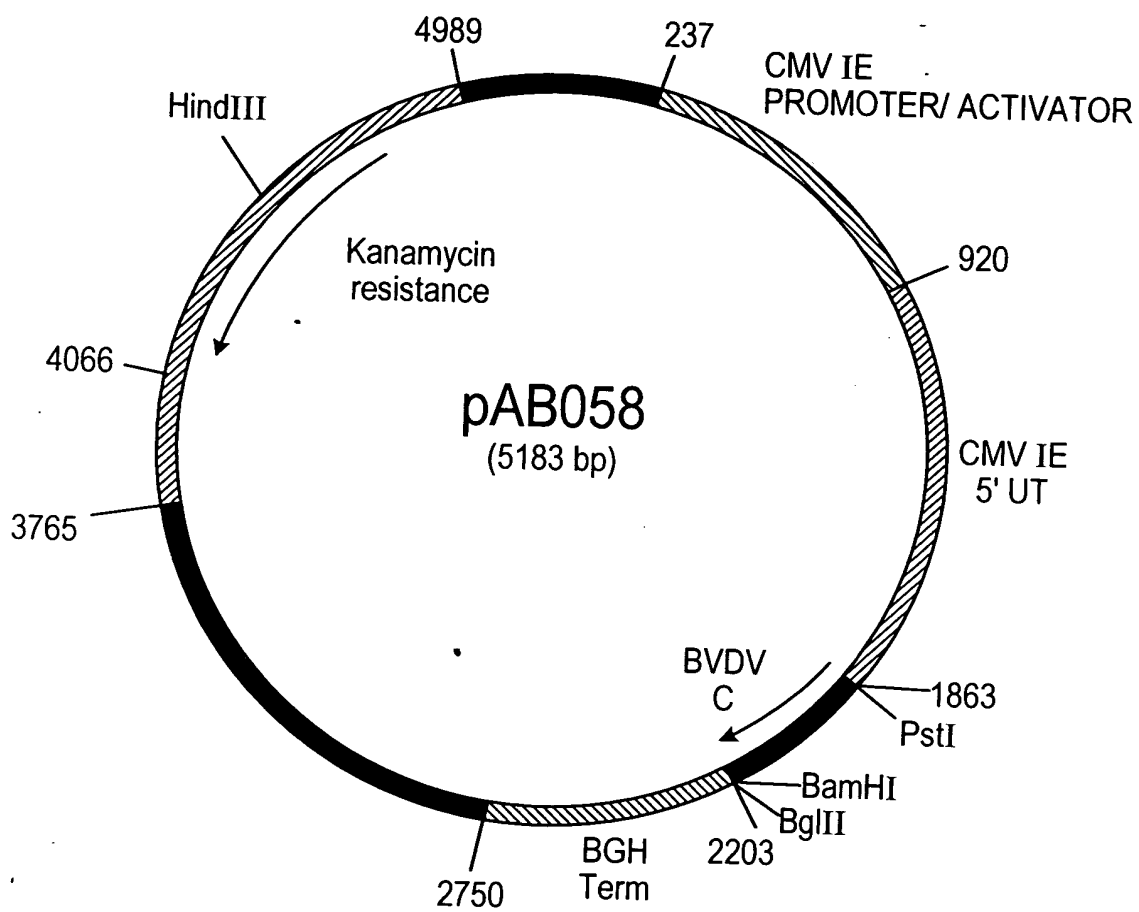
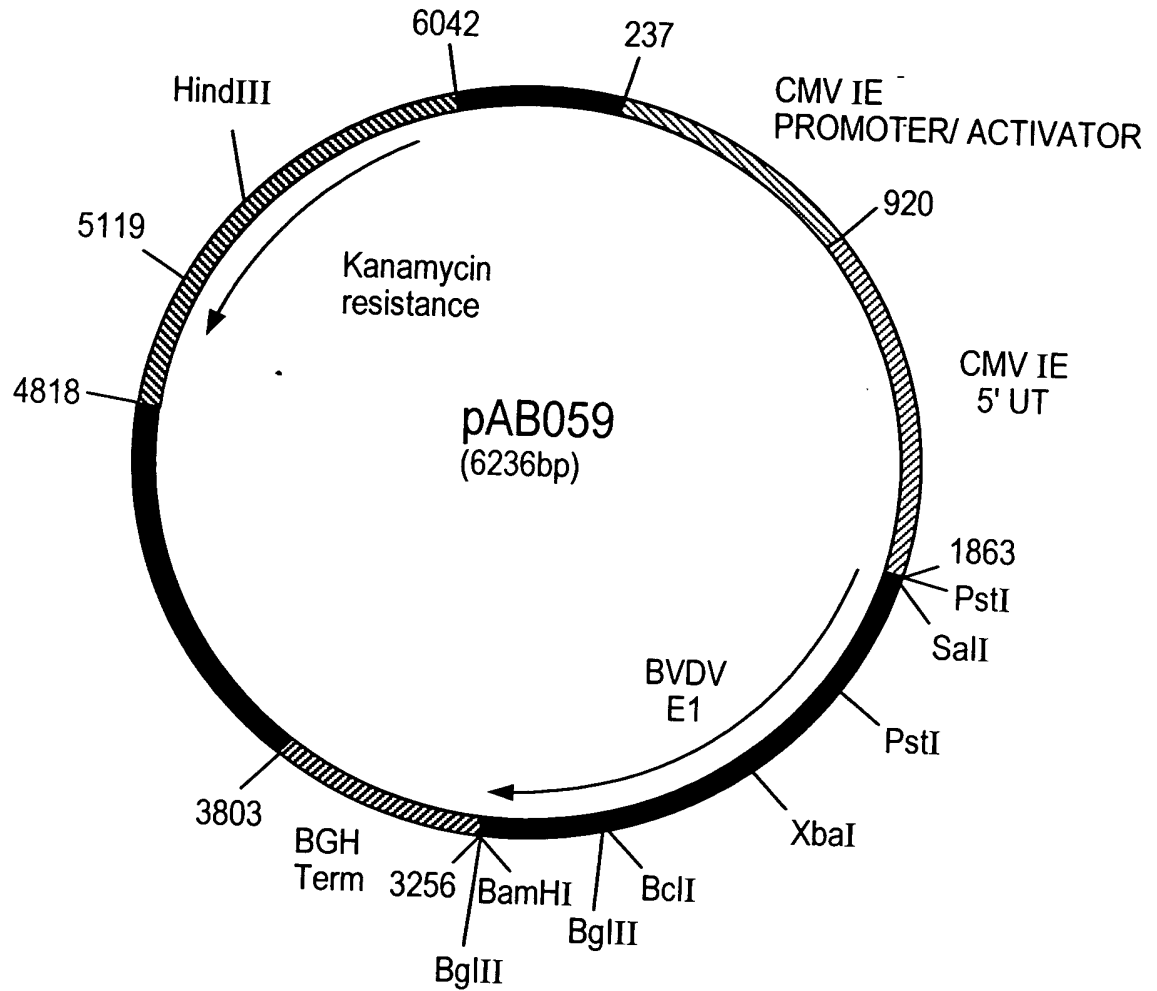
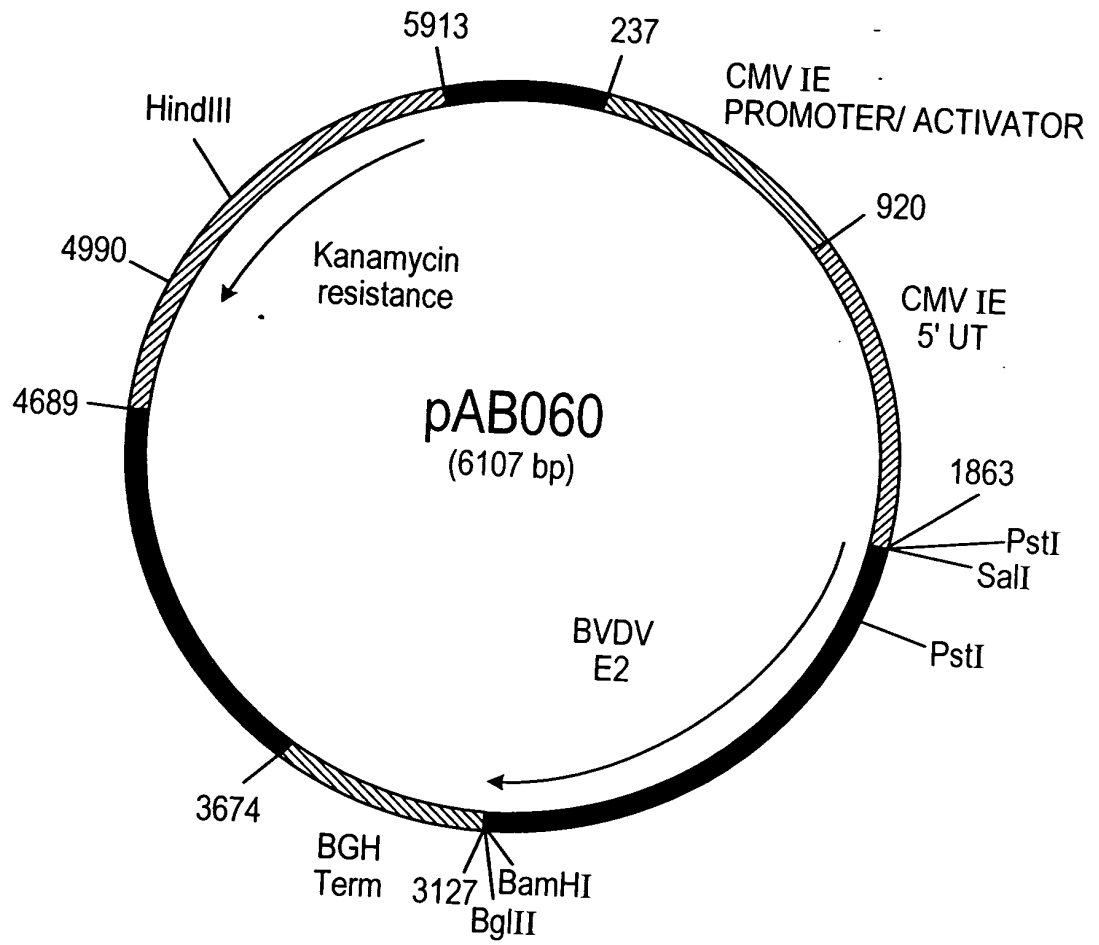


FIG. 7

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**FIG. 8**

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**FIG. 9**

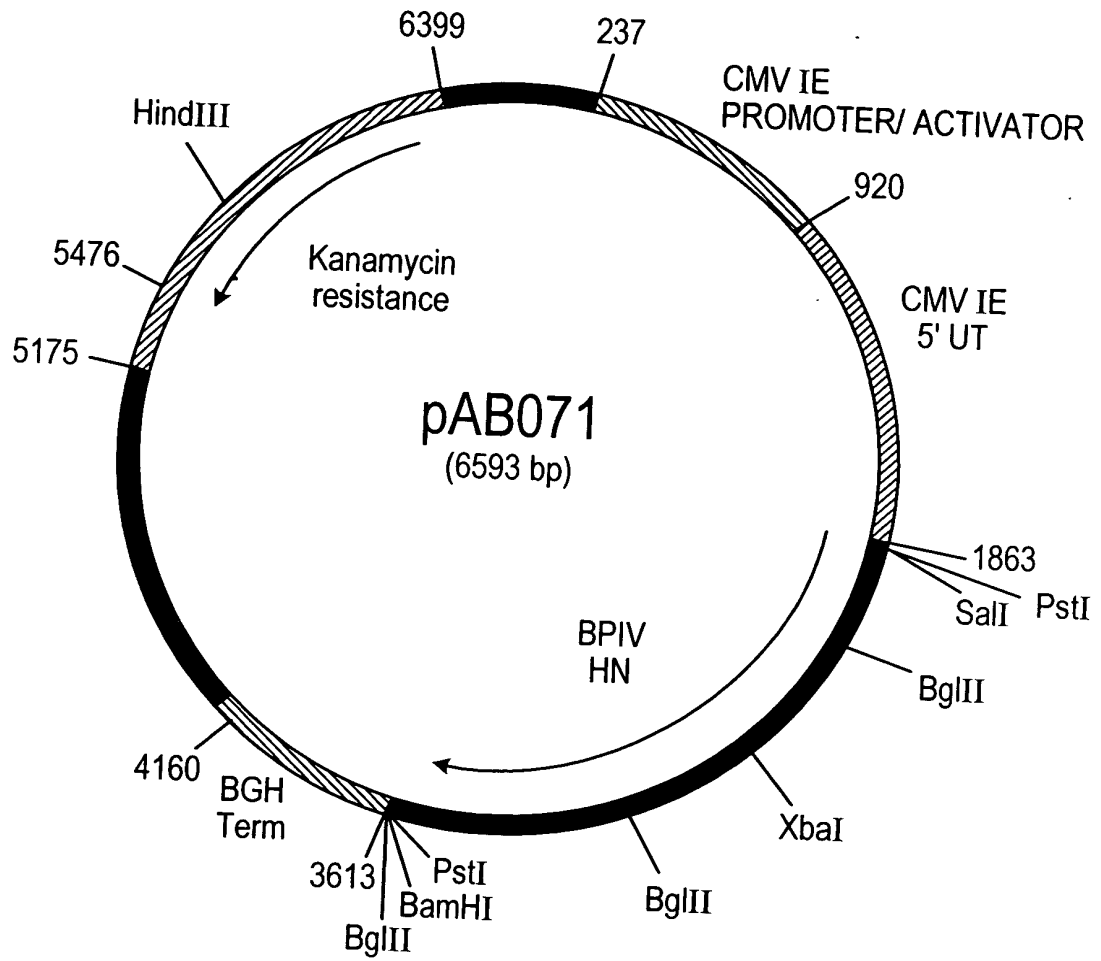
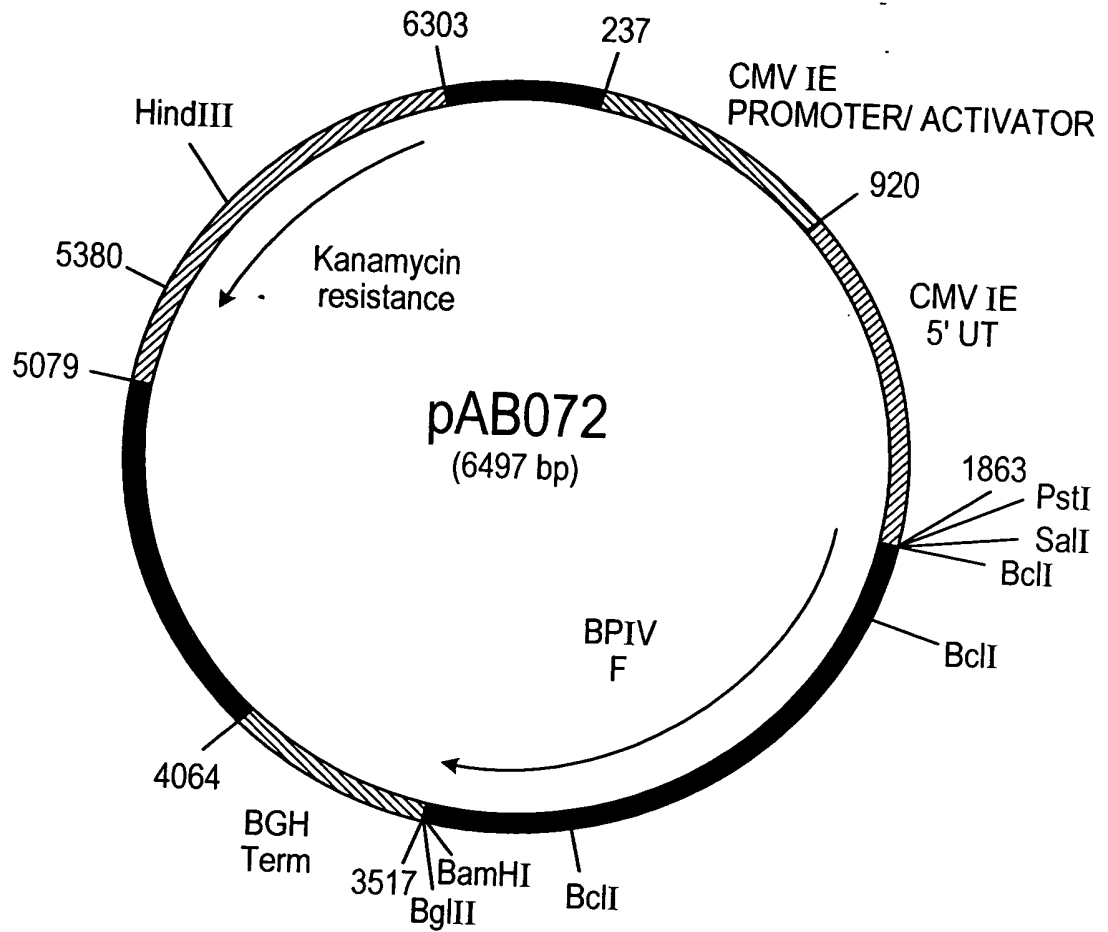


FIG. 10

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**FIG. 11**

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